Index of Authors and Titles

ABE, K. *See* TAKAGI, N.

AITKEN, J. R. *See* NASR-ESFAHANI, M. H.

AKHURST, R. J. *See* FITZPATRICK, D. R.

ALBER, R. *See* LAYER, P. G.

AMANZE, D. *and* IYENGAR, A. The micropyle: a sperm guidance system in teleost fertilization 495

ARSANTO, J.-P., DIANO, M., THOUVENY, Y., THIERY, J. P. *and* LEVI, G. Patterns of tenascin expression during tail regeneration of the amphibian urodele *Pleurodeles waltl* 177

AVIVI, A. *See* ORR-URTREGER, A.

BAKER, P. J., MOORE, H. D. M., PENFOLD, L. M., BURGESS, A. M. C. *and* MITTWOCH, U. Gonadal sex differentiation in the neonatal marsupial, *Monodelphis domestica* 699

BARALD, K. F. *See* HINTERBERGER, T. J.

BARBACID, M. *See* KLEIN, R.

BARCLAY, S. L. *See* RILEY, B. B.

BARSH, G. S., LOVETT, M. *and* EPSTEIN, C. J. Effects of the lethal yellow (A^y) mutation in mouse aggregation chimeras 683

BARTON, D. E. *See* GRIDLEY, T.

BECKER, T. *and* TECHNAU, G. M. Single cell transplantation reveals interspecific cell communication in *Drosophila* chimeras 821

BECK, F. *See* SENIOR, P. V.

BEDDINGTON, R. S. P. *See* SAVATIER, P.

BELLVE, A. *See* THOMAS, K.

BENNETT, M. F. *See* SARGENT, M. G.

BERMINGHAM, J. R., MARTINEZ-ARIAS, A., PETITT, M. G. *and* SCOTT, M. P. Different patterns of transcription from the two *Antennapedia* promoters during *Drosophila* embryogenesis 553

BISCHOFF, R. Interaction between satellite cells and skeletal muscle fibers 943

BONNEROT, C. *See* KRESS, C.

BOTHWELL, M. *See* BYERS, M. R.

BOVOLENTA, P. *and* DODD, J. Guidance of commissural growth cones at the floor plate in embryonic rat spinal cord 435

BRAMMAR, W. J. *See* SENIOR, P. V.

BREMILLER, R. *See* LARISON, K. D.

BREMILLER, R. *See* MOLVEN, A.

BROWN, N. A. *and* WOLPERT, L. The development of handedness in left/right asymmetry 1

BURGESS, A. M. C. *See* BAKER, P. J.

BURGESS, D. R. *See* FATH, K. R.

BURGOYNE, P. *See* GUBBAY, J.

BYERS, M. R., SCHATTEMAN, G. C. *and* BOTHWELL, M. Multiple functions for NGF receptor in developing, aging and injured rat teeth are suggested by epithelial, mesenchymal and neural immunoreactivity 461

BYRNE, S. *See* SENIOR, P. V.

CABRERA, C. V. Lateral inhibition and cell fate during neurogenesis in *Drosophila*: the interactions between *scute*, *Notch* and *Delta* 733

CALVERT, R. A. *See* XUE, G. P.

CHOWDHURY, K. *See* DRESSLER, G. R.

CHYTIL, F. *See* MADEN, M.

COLETTA, P. L. *See* GAUNT, S. J.

COLLIGNON, J. *See* GUBBAY, J.

COLTEY, M. *See* POURQUIE, O.

COPENHAVER, P. F. *and* TAGHERT, P. H. Neurogenesis in the insect enteric nervous system: generation of premigratory neurons from an epithelial placode 17

CROSBY, Z. *See* RICHMAN, J. M.

CROWTHER, R. J., MEEDEL, T. H. *and* WHITTAKER, J. R. Differentiation of tropomyosin-containing myofibrils in cleavage-arrested ascidian zygotes expressing acetylcholinesterase 953

DAN-SOHKAWA, M. *See* KANEKO, H.

DARNELL, J. E. JR *See* KUO, C. F.

DAVID, C. N. *See* HOBMAYER, E.

DE FELICI, M. *See* DOLCI, S.

DE GRAAFF, W. *See* KRESS, C.

DEL MAZO, J. *See* THOMAS, K.

DENHEZ, F. *See* FITZPATRICK, D. R.

DE ROBERTIS, E. M. *See* MOLVEN, A.

DE ROBERTIS, E. M. *See* WRIGHT, C. V. E.

DESCHAMPS, J. *See* KRESS, C.

DEUTSCH, U. *See* DRESSLER, G. R.

DEUTSCH, U. *See* NORNES, H. O.

DIANO, M. *See* ARSANTO, J.-P.

DODD, J. *See* BOVOLENTA, P.

DOLCI, S. *and* DE FELICI, M. A study of meiosis in chimeric mouse fetal gonads 37

DRÄGER, U. C. *See* RABACCHI, S. A.

DRESSLER, G. R., DEUTSCH, U., CHOWDHURY, K., NORNES, H. O. *and* GRUSS, P. *Pax2*, a murine paired-box-containing gene and its expression in the developing excretory system 787

DRESSLER, G. R. *See* NORNES, H. O.

DRIEVER, W., SIEGEL, V. *and* NÜSSLEIN-VOLHARD, C. Autonomous determination of anterior structures in the early *Drosophila* embryo by the *bicoid* morphogen 811

DUBOIS, C. *See* MIRSKY, R.

DUTTING, D. *See* SCHLOSSHAUER, B.

ENGSTROM, W. *See* HYLDAHL, L.

EPSTEIN, C. J. *See* BARSH, G. S.

ERSELIUS, J. R. *See* HATZOPOULOS, A. K.

EVERSOLE, P. *See* THOMAS, K.

EVSIKOV, S. V., MOROZOVA, L. M. *and* SOLOMKO, A. P. The role of the nucleocytoplasmic ratio in development regulation of the early mouse embryo 323

FALLSTROM, C. *See* PERRIS, R.

FATH, K. R., OBENAUF, S. D. *and* BURGESS, D. R. Cytoskeletal protein and mRNA accumulation during brush border formation in adult chicken enterocytes 449

FAWCETT, J. W. *and* HOUSDEN, E. The effects of protease inhibitors on axon growth through astrocytes 59

FAWCETT, J. W. *See* SMITH-THOMAS, L. C.

FITZPATRICK, D. R., DENHEZ, F., KONDAIAH, P. *and* AKHURST, R. J. Differential expression of TGF beta isoforms in murine palatogenesis 585

FLADBY, T. *and* JANSEN, J. K. S. Development of homogeneous fast and slow motor units in the neonatal mouse soleus muscle 723

FLANDERS, K. C. *See* HEINE, U. I.

FOERSTER, P., MULLER, S. C. *and* HESS, B. Curvature and spiral geometry in aggregation patterns of *Dictyostelium discoideum* 11

FONTAINE-PERUS, J. C. *See* ROTHMAN, T. P.

FRANCKE, U. *See* GRIDLEY, T.

GAUNT, S. J., COLETTA, P. L., PRAVTCHEVA, D. *and* SHARPE, P. T. Mouse *Hox-3.4*: homeobox sequence and embryonic

expression patterns compared with other members of the *Hox* gene network 329
GEHRING, W. J. *See* MLODZIK, M.
GERHART, J. C. *See* STEWART, R. M.
GERSHON, M. D. *See* ROTHMAN, T. P.
GIBSON, G. *See* MLODZIK, M.
GIVOL, D. *See* ORR-URTREGER, A.
GOLDSPINK, G. *See* LOUGHNA, P. T.
GOULDING, M. *See* HATZOPOULOS, A. K.
GRAY, D. A. *See* GRIDLEY, T.
GREENSPAN, R. J. *See* HOPPE, P. E.
GRIDLEY, T., GRAY, D. A., ORR-WEAVER, T., SORIANO, P., BARTON, D. E., FRANCKE, U. *and* JAENISCH, R. Molecular analysis of the *Mov 34* mutation: transcript disrupted by proviral integration in mice is conserved in *Drosophila* 235
GRUENBAUM, Y. *See* MITRANI, E.
GRUSS, P. *See* DRESSLER, G. R.
GRUSS, P. *See* HATZOPOULOS, A. K.
GRUSS, P. *See* NORNES, H. O.
GUBBAY, J., KOOPMAN, P., COLLIGNON, J., BURGOYNE, P. *and* LOVELL-BADGE, R. Normal structure and expression of *Zfy* genes in XY female mice mutant in *Tdy* 647
GURDON, J. B. *See* SHARPE, C. R.

HARRY, J. L., WILLIAMS, K. L. *and* BRISCOE, D. A. Sex determination in loggerhead turtles: differential expression of two hnRNP proteins 305
HATZOPOULOS, A. K., STOYKOVA, A. S., ERSELIUS, J. R., GOULDING, M., NEUMAN, T. *and* GRUSS, P. Structure and expression of the mouse Oct2a and Oct2b, two differentially spliced products of the same gene 349
HAY, B., JAN, L. Y. *and* JAN, Y. N. Localization of vasa, a component of *Drosophila* polar granules, in maternal-effect mutants that alter embryonic anteroposterior polarity 425
HEINE, U. I., MUNOZ, E. F., FLANDERS, K. C., ROBERTS, A. B. *and* SPORN, M. B. Colocalization of TGF-beta 1 and collagen I and III, fibronectin and glycosaminoglycans during lung branching morphogenesis 29
HEPLER, P. K. *See* McCAULEY, M. M.
HESS, B. *See* FOERSTER, P.
HILL, D. J. *See* RALPHS, J. R.
HINTERBERGER, T. J. *and* BARALD, K. F. Fusion between myoblasts and adult muscle fibers promotes remodeling of fibers into myotubes *in vitro* 139
HIRAOKA, Y. *See* THOMAS, K.
HOBMAYER, E., HOLSTEIN, T. W. AND DAVID, C. N. Tentacle morphogenesis in hydra. I. The role of head activator 887
HOBMAYER, E., HOLSTEIN, T. W. *and* DAVID, C. N. Tentacle morphogenesis in hydra. II. Formation of a complex between a sensory nerve cell and a battery cell 897
HOGAN, B. L. M. *See* LYONS, K. M.
HOLSTEIN, T. *See* HOBMAYER, E.
HONTS, J. E. *See* WILLIAMS, N. E.
HOPPE, P. E. *and* GREENSPAN, R. J. The *Notch* locus of *Drosophila* is required in epidermal cells for epidermal development 875
HORNBRUCH, A. *See* RICHARDSON, M. K.
HORNBRUCH, A. *See* WOLPERT, L.
HOUSDEN, E. *See* FAWCETT, J. W.
HYLDAHL, L., SCHOFIELD, P. N. *and* ENGSTROM, W. Stimulatory effects of basic fibroblast growth factor on DNA synthesis in the human embryonic cornea 605

IYENGAR, A. *See* AMANZE, D.
IZUMO, S. *See* LOUGHNA, P. T.

JAENISCH, R. *See* GRIDLEY, T.
JAN, L. Y. *See* HAY, B.
JANSEN, J. K. S. *See* FLADBY, T.
JAN, Y. N. *See* HAY, B.
JESSEN, K. R., MORGAN, L., STEWART, H. J. S. *and* MIRSKY, R. Three markers of adult non-myelin-forming Schwann cells, 217c(Ran-1), A5E3 and GFAP: development and regulation by neuron–Schwann cell interactions 91
JESSEN, K. R. *See* MIRSKY, R.
JOHNSON, A. D. *and* SMITH, L. D. *In vivo* regulation of MPF in *Xenopus* oocytes 149
JOHNSON, A. R. *See* SMITH-THOMAS, L. C.
JOHNSON, M. H. *See* NASR-ESFAHANI, M. H.
JONAS, E. A. *See* SNAPE, A. M.
JONES, R. *and* WILLIAMS, R. M. Identification of zona- and fucoidan-binding proteins in guinea-pig spermatozoa and mechanism of recognition 41

KACZANOWSKA, J. *See* WILLIAMS, N. E.
KALCHEIM, C. *and* NEUFELD, G. Expression of basic fibroblast growth factor in the nervous system of early avian embryos 203
KANEKO, H., TAKAICHI, S., YAMAMOTO, M. *and* DAN-SOHKAWA, M. Acellularity of starfish embryonic mesenchyme cells as shown *in vitro* 129
KHANER, O. *and* WILT, F. The influence of cell interactions and tissue mass on differentiation of sea urchin mesomeres 625
KIMMEL, C. B. *See* MOLVEN, A.
KLEIN, R., MARTIN-ZANCA, D., BARBACID, M. *and* PARADA, L. F. Expression of the tyrosine kinase receptor gene *trkB* is confined to the murine embryonic and adult nervous system 845
KNAPIK, E. W. *See* NORNES, H. O.
KONDAIAH, P. *See* FITZPATRICK, D. R.
KOOPMAN, P. *See* GUBBAY, J.
KRESS, C., VOGELS, R., DE GRAAFF, W., BONNEROT, C., MEIJLINK, F., NICOLAS, J. F. *and* DESCHAMPS, J. Hox-2.3 upstream sequences mediate lacZ expression in intermediate mesoderm derivatives of transgenic mice 775
KUO, C. F., XANTHOPOULOS, K. G. *and* DARNELL, J. E. JR Fetal and adult localization of C/EBP: evidence for combinatorial action of transcription factors in cell-specific gene expression 473

LARISON, K. D. *and* BREMILLER, R. Early onset of phenotype and cell patterning in the embryonic zebrafish retina 567
LAYER, P. G. *and* ALBER, R. Patterning of chick brain vesicles as revealed by peanut agglutinin and cholinesterases 613
LE DOUARIN, N. M. *See* POURQUIE, O.
LE DOUARIN, N. M. *See* ROTHMAN, T. P.
LEVI, G. *See* ARSANTO, J.-P.
LI, S. S. L. *See* THOMAS, K.
LOFBERG, J. *See* PERRIS, R.
LONAI, P. *See* ORR-URTREGER, A.
LOUGHNA, P. T., IZUMO, S., GOLDSPINK, G. *and* NADAL-GINARD, B. Disuse and passive stretch cause rapid alterations in expression of developmental and adult contractile protein genes in skeletal muscle 217
LOVELL-BADGE, R. *and* ROBERTSON, E. XY female mice resulting from a heritable mutation in the primary testis-determining gene, *Tdy* 635
LOVELL-BADGE, R. *See* GUBBAY, J.
LOVETT, M. *See* BARSH, G. S.

LYONS, K. M., PELTON, R. W. *and* HOGAN, B. L. M. Organogenesis and pattern formation in the mouse: RNA distribution patterns suggest a role for *Bone Morphogenetic Protein-2A (BMP-2A)* 833

MADEN, M., ONG, D. E. *and* CHYTIL, F. Retinoid-binding protein distribution in the developing mammalian nervous system 75
MARTINEZ-ARIAS, A. *See* BERMINGHAM, J. R.
MARTINI, R. *See* PROBSTMEIER, R.
MARTIN-ZANCA, D. *See* KLEIN, R.
McCAULEY, M. M. *and* HEPLER, P. K. Visualization of the endoplasmic reticulum in living buds and branches of the moss *Funaria hygrometrica* by confocal laser scanning microscopy 753
McCORMICK, S. *See* TWELL, D.
McLACHLAN, J. C. *See* SMITH, J.
McMURRAY, J. V. *See* STUART, G. W.
MEEDEL, T. H. *See* CROWTHER, R. J.
MEIJLINK, F. *See* KRESS, C.
MIRSKY, R., DUBOIS, C., MORGAN, L. *and* JESSEN, K. R. 04 and A007-sulfatide antibodies bind to embryonic Schwann cells prior to the appearance of galactocerebroside; regulation of the antigen by axon–Schwann cell signals and cyclic AMP 105
MIRSKY, R. *See* JESSEN, K. R.
MITRANI, E., GRUENBAUM, Y., SHOHAT, H. *and* ZIV, T. Fibroblast growth factor during mesoderm induction in the early chick embryo 387
MITTWOCH, U. *See* BAKER, P. J.
MLODZIK, M., GIBSON, G. *and* GEHRING, W. J. Effects of ectopic expression of *caudal* during *Drosophila* development 271
MOLVEN, A., WRIGHT, C. V. E., BREMILLER, R., DE ROBERTIS, E. M. *and* KIMMEL, C. B. Expression of a homeobox gene product in normal and mutant zebrafish embryos: evolution of the tetrapod body plan 279
MOORE, H. D. M. *See* BAKER, P. J.
MORGAN, L. *See* JESSEN, K. R.
MORGAN, L. *See* MIRSKY, R.
MORGENSTERN, J. *See* SAVATIER, P.
MORITA, E. A. *See* WRIGHT, C. V. E.
MORRIS, R. J. *See* XUE, G. P.
MRORZOVA, L. M. *See* EVSIKOV, S. V.
MULLER, S. C. *See* FOERSTER, P.
MUNOZ, E. F. *See* HEINE, U. I.

NADAL-GINARD, B. *See* LOUGHNA, P. T.
NASR-ESFAHANI, M. H., AITKEN, J. R. *and* JOHNSON, M. H. Hydrogen peroxide levels in mouse oocytes and early cleavage stage embryos developed *in vitro* or *in vivo* 501
NEUFELD, G. *See* KALCHEIM, C.
NEUMAN, T. *See* HATZOPOULOS, A. K.
NEVE, R. L. *See* RABACCHI, S. A.
NEWGREEN, D. F. *See* PERRIS, R.
NICOLAS, J. F. *See* KRESS, C.
NOBLE, M. *See* WOLSWIJK, G.
NORNES, H. O., DRESSLER, G. R., KNAPIK, E. W., DEUTSCH, U. *and* GRUSS, P. Spatially and temporally restricted expression of *pax2* during murine neurogenesis 797
NORNES, H. O. *See* DRESSLER, G. R.
NUSSLEIN-VOLHARD, C. *See* DRIEVER, W.

OBENAUF, S. D. *See* FATH, K. R.
OLSSON, L. *See* PERRIS, R.
ONG, D. E. *See* MADEN, M.
ORR-URTREGER, A., AVIVI, A., ZIMMER, Y., GIVOL, D., YARDEN, Y. *and* LONAI, P. Developmental expression of c-*kit*, a proto-oncogene encoded by the *W* locus 911
ORR-WEAVER, T. *See* GRIDLEY, T.
OSTER, G. *See* WELIKY, M.
OZIL, J. P. The parthenogenetic development of rabbit oocytes after repetitive pulsatile electrical stimulation 117

PALKA, J., SCHUBIGER, M. *and* SCHWANINGER, H. Neurogenic and antineurogenic effects from modifications at the *Notch* locus 167
PARADA, L. F. *See* KLEIN, R.
PELTON, R. W. *See* LYONS, K. M.
PENFOLD, L. M. *See* BAKER, P. J.
PERRIS, R., LOFBERG, J., FALLSTROM, C., VON BOXBERG, Y., OLSSON, L. *and* NEWGREEN, F. D. Structural and compositional divergencies in the extracellular matrix encountered by neural crest cells in the white mutant axolotl embryo 533
PETITT, M. G. *See* BERMINGHAM, J. R.
POURQUIE, O., COLTEY, M., THOMAS, J.-L. *and* LE DOUARIN, N. M. A widely distributed antigen developmentally regulated in the nervous system 743
PRAVTCHEVA, D. *See* GAUNT, S. J.
PROBSTMEIER, R., MARTINI, R. *and* SCHACHNER, M. Expression of J1/tenascin in the crypt–villus unit of adult mouse small intestine: implications for its role in epithelial cell shedding 313

RABACCHI, S. A., NEVE, R. L. *and* DRAGER, U. C. A positional marker for the dorsal embryonic retina is homologous to the high-affinity laminin receptor 521
RALPHS, J. R., WYLIE, L. *and* HILL, D. J. Distribution of insulin-like growth factor peptides in the developing chick embryo 51
RAZ, E. *See* ZAK, N. B.
REUTER, R. *and* SCOTT, M. P. Expression and function of the homeotic genes *Antennapedia* and *Sex combs reduced* in the embryonic midgut of *Drosophila* 289
RICHARDSON, M. K., HORNBRUCH, A. *and* WOLPERT, L. Mechanisms of pigment pattern formation in the quail embryo 81
RICHMAN, J. M. *and* CROSBY, Z. Differential growth of facial primordia of chick embryos: responses of facial mesenchyme to basic fibroblast growth factor (bFGF) and serum in micromass culture 341
RIDDLE, P. N. *See* WOLSWIJK, G.
RILEY, B. B. *and* BARCLAY, S. L. Ammonia promotes accumulation of intracellular cAMP in differentiating amoebae of *Dictyostelium discoideum* 715
ROBERTS, A. B. *See* HEINE, U. I.
ROBERTSON, E. *See* LOVELL-BADGE, R.
ROTHMAN, T. P., LE DOUARIN, N. M., FONTAINE-PERUS, J. C. *and* GERSHON, M. D. Developmental potential of neural crest-derived cells migrating from segments of developing quail bowel back-grafted into younger chick host embryos 411

SARGENT, M. G. *and* BENNETT, M. F. Identification in *Xenopus* of a structural homologue of the *Drosophila* gene *snail* 967
SARGENT, T. D. *See* SNAPE, A. M.
SAVATIER, P., MORGENSTERN, J. *and* BEDDINGTON, R. S. P. Permissiveness to murine leukemia virus expression during preimplantation and early postimplantation mouse development 655
SCHACHNER, M. *See* PROBSTMEIER, R.

SCHATTEMAN, G. C. *See* BYERS, M. R.
SCHEJTER, E. D. *See* ZAK, N. B.
SCHLOSSHAUER, B., DUTTING, D. *and* WILD, M. Target-independent regulation of a novel growth associated protein in the visual system of the chicken 395
SCHOENWOLF, G. C. *and* SMITH, J. L. Mechanisms of neurulation: traditional viewpoint and recent advances 243
SCHOFIELD, P. N. *See* HYLDAHL, L.
SCHUBIGER, M. *See* PALKA, J.
SCHWANINGER, H. *See* PALKA, J.
SCOTT, M. P. *See* BERMINGHAM, J. R.
SCOTT, M. P. *See* REUTER, R.
SENIOR, P. V., BYRNE, S., BRAMMAR, W. J. *and* BECK, F. Expression of the IGF-II/mannose-6-phosphate receptor mRNA and protein in the developing rat 67
SHARPE, C. R. *and* GURDON, J. B. The induction of anterior and posterior neural genes in *Xenopus laevis* 765
SHARPE, P. T. *See* GAUNT, S. J.
SHILO, B.-Z. *See* ZAK, N. B.
SHOHAT, H. *See* MITRANI, E.
SIEGEL, V. *See* DRIEVER, W.
SIMON, M. *See* THOMAS, K.
SIMPSON, P. Lateral inhibition and the development of the sensory bristles of the adult peripheral nervous system of *Drosophila* 509
SMITH, J. *and* MCLACHLAN, J. C. Identification of a novel growth factor with transforming activity secreted by individual chick embryos 905
SMITH, J. L. *See* SCHOENWOLF, G. C.
SMITH, L. D. *See* JOHNSON, A. D.
SMITH, L. D. *See* VARNOLD, R. L.
SMITH-THOMAS, L. C., JOHNSON, A. R. *and* FAWCETT, J. W. The effects of embryonic retinal neurons on neural crest cell differentiation into Schwann cells 925
SNAPE, A. M., JONAS, E. A. *and* SARGENT, T. D. KTF-1, a transcriptional activator of *Xenopus* embryonic keratin expression 157
SOLOMKO, A. P. *See* EVSIKOV, S. V.
SORIANO, P. *See* GRIDLEY, T.
SPORN, M. B. *See* HEINE, U. I.
STERN, C. D. The marginal zone and its contribution to the hypoblast and primitive streak of the chick embryo 667
STEWART, H. J. S. *See* JESSEN, K. R.
STEWART, R. M. *and* GERHART, J. C. The anterior extent of dorsal development of the *Xenopus* embryonic axis depends on the quantity of organizer in the late blastula 363
STOYKOVA, A. S. *See* HATZOPOULOS, A. K.
STUART, G. W., VIELKIND, J. R., MCMURRAY, J. V. *and* WESTERFIELD, M. Stable lines of transgenic zebrafish exhibit reproducible patterns of transgene expression 577

TAGHERT, P. H. *See* COPENHAVER, P. F.
TAKAGI, N. *and* ABE, K. Detrimental effects of two active X chromosomes on early mouse development 189
TAKAICHI, S. *See* KANEKO, H.
TECHNAU, G. M. *See* BECKER, T.
THIERY, J. P. *See* ARSANTO, J.-P.
THOMAS, J.-L. *See* POURQUIE, O.
THOMAS, K., DEL MAZO, J., EVERSOLE, P., BELLVE, A., HIRAOKA, Y., LI, S. S. L. *and* SIMON, M. Developmental regulation of expression of the lactate dehydrogenase (LDH) multigene family during mouse spermatogenesis 483
THOUVENY, Y. *See* ARSANTO, J.-P.
TWELL, D., YAMAGUCHI, J. *and* MCCORMICK, S. Pollen-specific gene expression in transgenic plants: coordinate regulation of two different tomato gene promoters during microsporogenesis 705

VARNOLD, R. L. *and* SMITH, L. D. Protein kinase C and progesterone-induced maturation in *Xenopus* oocytes 597
VIELKIND, J. R. *See* STUART, G. W.
VON BOXBERG, Y. *See* PERRIS, R.
VOGELS, R. *See* KRESS, C.

WELIKY, M. *and* OSTER, G. The mechanical basis of cell rearrangement. I. Epithelial morphogenesis during *Fundulus* epiboly 373
WESTERFIELD, M. *See* STUART, G. W.
WHITTAKER, J. R. *See* CROWTHER, R. J.
WIDES, R. J. *See* ZAK, N. B.
WILD, M. *See* SCHLOSSHAUER, B.
WILKIN, D. J. *See* WRIGHT, C. V. E.
WILLIAMS, N. E., HONTS, J. E. *and* KACZANOWSKA, J. The formation of basal body domains in the membrane skeleton of *Tetrahymena* 935
WILLIAMS, R. M. *See* JONES, R.
WILT, F. *See* KHANER, O.
WOLPERT, L. *and* HORNBRUCH, A. Double anterior chick limb buds and models for cartilage rudiment specification 961
WOLPERT, L. *See* BROWN, N. A.
WOLPERT, L. *See* RICHARDSON, M. K.
WOLSWIJK, G., RIDDLE, P. N. *and* NOBLE, M. Coexistence of perinatal and adult forms of a glial progenitor cell during development of the rat optic nerve 691
WRIGHT, C. V. E., MORITA, E. A., WILKIN, D. J. *and* DE ROBERTIS, E. M. The *Xenopus* XlHbox 6 homeo protein, a marker of posterior neural induction, is expressed in proliferating neurons 225
WRIGHT, C. V. E. *See* MOLVEN, A.
WYLIE, L. *See* RALPHS, J. R.

XANTHOPOULOS, K. G. *See* KUO, C. F.
XUE, G. P., CALVERT, R. A. *and* MORRIS, R. J. Expression of the neuronal surface glycoprotein Thy-1 is under post-transcriptional control, and is spatially regulated, in the developing olfactory system 851

YAMAGUCHI, J. *See* TWELL, D.
YAMAMOTO, M. *See* KANEKO, H.
YARDEN, Y. *See* ORR-URTREGER, A.

ZAK, N. B., WIDES, R. J., SCHEJTER, E. D., RAZ, E. *and* SHILO, B.-Z. Localization of the DER/*flb* protein in embryos: implications on the *faint little ball* lethal phenotype 865
ZIMMER, Y. *See* ORR-URTREGER, A.
ZIV, T. *See* MITRANI, E.

Subject Index

Acellularity
of embryonic starfish mesenchyme cells: KANEKO AND OTHERS 129
Acetylcholinesterase
tropomyosin/cholinesterase expression in ascidian zygotes: CROWTHER AND OTHERS 953
Acrosome
reaction
zona receptors on guinea-pig spermatozoa: JONES AND WILLIAMS 41
Actin
effect of stretch on muscle gene expression: LOUGHNA AND OTHERS 217
Adult
rat
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Aggregation
pattern
of *Dictyostelium discoideum*: FOERSTER AND OTHERS 11
Aging
NGF receptor in rat dental tissue: BYERS AND OTHERS 461
Agouti
cellular action of the mouse lethal yellow mutation: BARSH AND OTHERS 683
Ammonia
promotes cAMP accumulation in *Dictyostelium*: RILEY AND BARCLAY 715
AMP
cyclic
ammonia promotes cAMP accumulation in *Dictyostelium*: RILEY AND BARCLAY 715
prenatal Schwann cell development: MIRSKY AND OTHERS 105
Antennapedia
control of mesoderm development by homeotic genes: REUTER AND SCOTT 289
expression patterns of the two *Drosophila Ant* promoters: BERMINGHAM AND OTHERS 553
Anterior
–posterior axis
organizer amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
Anteroposterior polarity
vasa localization in *Drosophila* maternal-effect mutants: HAY AND OTHERS 425
Antibody
04
prenatal Schwann cell development: MIRSKY AND OTHERS 105
Antigen
dorsal eye antigen in mouse: RABACCHI AND OTHERS 521
Antineurogenic effect
Drosophila Notch mutations: PALKA AND OTHERS 167
Ascidia
zygotes
tropomyosin/cholinesterase expression: CROWTHER AND OTHERS 953
Astrocyte
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Astroglia
effects of protease inhibitors: FAWCETT AND HOUSDEN 59
Asymmetry
development of left/right asymmetry: BROWN AND WOLPERT 1
Avian
embryo
localization of bFGF: KALCHEIM AND NEUFELD 203
Axis
anterior–posterior
organizer amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
Axogenesis
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
Axolotl
embryo
extracellular matrix in neural crest pathways: PERRIS AND OTHERS 533
Axon
guidance
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
outgrowth
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395
rat
prenatal Schwann cell development: MIRSKY AND OTHERS 105
regeneration
effects of protease inhibitors: FAWCETT AND HOUSDEN 59

Back-transplantation
of developing avian bowel: ROTHMAN AND OTHERS 411
Basal body
membrane skeleton domains in *Tetrahymena*: WILLIAMS AND OTHERS 935
Basic fibroblast growth factor
differential growth of facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
during chick mesoderm induction: MITRANI AND OTHERS 387
effect on DNA synthesis in human cornea: HYLDAHL AND OTHERS 605
Battery
cell
nerve cell–battery cell complex in hydra: HOBMAYER AND OTHERS 897
BEN
expression in avian embryonic nervous system: POURQUIE AND OTHERS 743
bFGF
differential growth of facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
during chick mesoderm induction: MITRANI AND OTHERS 387
effect on DNA synthesis in human cornea: HYLDAHL AND OTHERS 605
localization in avian embryos: KALCHEIM AND NEUFELD 203
bicoid
determination in *Drosophila* embryo: DRIEVER AND OTHERS 811

Bilateral symmetry
organizer amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
Biological clock
nucleocytoplasmic ratio in early mouse development: EVSIKOV AND OTHERS 323
Blastocoel
formation
nucleocytoplasmic ratio in early mouse development: EVSIKOV AND OTHERS 323
Blastomere
cell interaction and differentiation of sea urchin mesomeres: KHANER AND WILT 625
Blastula
late
organizer amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
BMP-2A
expression during mouse development: LYONS AND OTHERS 833
Bone morphogenetic protein-2A (See BMP-2A)
Bowel
back-transplantation of developing avian bowel: ROTHMAN AND OTHERS 411
Brachydanio rerio
expression of a homeodomain protein: MOLVEN AND OTHERS 279
Brain
segmentation
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
BrdU
differential growth of chick facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Brush border
formation in chick enterocytes: FATH AND OTHERS 449

cAMP
ammonia promotes cAMP accumulation in *Dictyostelium*: RILEY AND BARCLAY 715
Cartilage
rudiment specification in chick: WOLPERT AND HORNBRUCH 961
caudal
ectopic expression in *Drosophila*: MLODZIK AND OTHERS 271
C/EBP
localization: KUO AND OTHERS 473
Cell
adhesion
J1/tenascin in mouse small intestine: PROBSTMEIER AND OTHERS 313
battery
nerve cell–battery cell complex in hydra: HOBMAYER AND OTHERS 897
communication
in *Drosophila* neurogenesis: BECKER AND TECHNAU 821
cycle
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
regulation of MPF in *Xenopus* oocytes: JOHNSON AND SMITH 149
fate
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
interaction
and differentiation of sea urchin mesomeres: KHANER AND WILT 625
Schwann cell–neuron: JESSEN AND OTHERS 91
movement
chick marginal zone, hypoblast and primitive streak formation: STERN 667
nerve
tentacle morphogenesis in hydra: HOBMAYER AND OTHERS 887
neural crest
differentiation into Schwann cells: SMITH-THOMAS AND OTHERS 925
patterning
retinal development in embryonic zebrafish: LARISON AND BREMILLER 567
rearrangement
epithelial morphogenesis during *Fundulus* epiboly: WELIKY AND OSTER 373
satellite
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
–myofiber interaction: BISCHOFF 943
signals
prenatal Schwann cell development: MIRSKY AND OTHERS 105
stem
sex determination, a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Cellular retinoic acid-binding protein (CRABP)
and CRBP in mammalian embryo: MADEN AND OTHERS 75
Cellular retinol-binding protein (CRBP)
and CRABP in mammalian embryo: MADEN AND OTHERS 75
Central nervous system
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Cerebellum
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
Chick
adult
brush border formation in enterocytes: FATH AND OTHERS 449
brain
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
embryo
BEN expression in embryonic nervous system: POURQUIE AND OTHERS 743
FGF during mesoderm induction: MITRANI AND OTHERS 387
IGF peptides: RALPHS AND OTHERS 51
marginal zone, hypoblast and primitive streak formation: STERN 667
transforming growth factors: SMITH AND McLACHLAN 905
limb
cartilage rudiment specification: WOLPERT AND HORNBRUCH 961
–quail chimera
back-transplantation of developing avian bowel: ROTHMAN AND OTHERS 411
visual system
growth associated protein: SCHLOSSHAUER AND OTHERS 395

Chimera
Drosophila
cell communication: BECKER AND TECHNAU 821
mouse
cellular action of the lethal yellow mutation: BARSH AND OTHERS 683
meiosis: DOLCI AND DE FELICI 37
quail–chick
back-transplantation of developing avian bowel: ROTHMAN AND OTHERS 411
sex determination, a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Chondrocyte
differential growth of chick facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Ciona intestinalis
tropomyosin/cholinesterase expression in ascidian zygotes: CROWTHER AND OTHERS 953
c-*kit*
developmental expression in mouse embryo: ORR-URTREGER AND OTHERS 911
Cleavage-arrested embryo
tropomyosin/cholinesterase expression in ascidian zygotes: CROWTHER AND OTHERS 953
CNS
midline
DER/flb protein localization in *Drosophila*: ZAK AND OTHERS 865
Collagen
TGF-beta 1 and ECM during lung morphogenesis: HEINE AND OTHERS 29
Commissural neuron
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
Computerized image processing
aggregation patterns of *Dictyostelium discoideum*: FOERSTER AND OTHERS 11
Cone
mosaic
retinal development in embryonic zebrafish: LARISON AND BREMILLER 567
Confocal laser scanning microscopy
Funaria endoplasmic reticulum: McCAULEY AND HEPLER 753
Cornea
human
effect of bFGF on DNA synthesis: HYLDAHL AND OTHERS 605
Cortical differentiation
membrane skeleton domains in *Tetrahymena*: WILLIAMS AND OTHERS 935
CRABP
and CRBP in mammalian embryo: MADEN AND OTHERS 75
Cranial nerve
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
CRBP
and CRABP in mammalian embryo: MADEN AND OTHERS 75
Crypt
brush border formation in chick enterocytes: FATH AND OTHERS 449
Culture
micromass
differential growth of facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Cycle
cell
regulation of MPF in *Xenopus* oocytes: JOHNSON AND SMITH 149
Cyclic AMP
prenatal Schwann cell development: MIRSKY AND OTHERS 105
Cyclin
regulation of MPF in *Xenopus* oocytes: JOHNSON AND SMITH 149
Cytoplasmic determinant
vasa localization in *Drosophila* maternal-effect mutants: HAY AND OTHERS 425
Cytoskeletal protein
brush border formation in chick enterocytes: FATH AND OTHERS 449
Cytoskeleton
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395

Defined medium
differential growth of chick facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Delta
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
Dendrogenesis
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
DER/flb protein
localization
in *Drosophila*: ZAK AND OTHERS 865
Determination
Drosophila
epidermal requirement for *Notch*: HOPPE AND GREENSPAN 875
sex
a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Zfy genes in XY female mice: GUBBAY AND OTHERS 647
Diacylglycerol
protein kinase C and progesterone-induced maturation: VARNOLD AND SMITH 597
Dictyostelium discoideum
aggregation patterns: FOERSTER AND OTHERS 11
ammonia promotes cAMP accumulation: RILEY AND BARCLAY 715
Differential splicing
of the Oct2 gene: HATZOPOULOS AND OTHERS 349
Differentiation antigen
prenatal Schwann cell development: MIRSKY AND OTHERS 105
Di-I
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
$DiOC_6$ (3)
Funaria endoplasmic reticulum: McCAULEY AND HEPLER 753
Disuse
effect of stretch on muscle gene expression: LOUGHNA AND OTHERS 217

DNA
-binding protein
differential splicing of the Oct2 gene: HATZOPOULOS AND OTHERS 349
transcriptional activator of *Xenopus* keratin: SNAPE AND OTHERS 157
synthesis
effect of bFGF in human cornea: HYLDAHL AND OTHERS 605
Dorsal development
organizer amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
Double cone
retinal development in embryonic zebrafish: LARISON AND BREMILLER 567
Drosophila
adult
lateral inhibition: SIMPSON 509
chimera
cell communication: BECKER AND TECHNAU 821
ectopic expression
of *caudal*: MLODZIK AND OTHERS 271
embryo
DER/flb protein localization: ZAK AND OTHERS 865
determination by *bicoid*: DRIEVER AND OTHERS 811
epidermal requirement for *Notch*: HOPPE AND GREENSPAN 875
expression patterns of the two *Ant* promoters: BERMINGHAM AND OTHERS 553
vasa localization in maternal-effect mutants: HAY AND OTHERS 425
homeotic genes
control of mesoderm development: REUTER AND SCOTT 289
homolog
molecular analysis of *Mov 34*: GRIDLEY AND OTHERS 235
neurogenesis
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
Notch mutations – antineurogenic effects: PALKA AND OTHERS 167
Dynamic network
acellularity of embryonic starfish mesenchyme cells: KANEKO AND OTHERS 129

Ectoderm
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Ectopic expression
of *caudal* in *Drosophila*: MLODZIK AND OTHERS 271
Ectoplacental cone
two active X chromosomes in mouse development: TAKAGI AND ABE 189
Embryo culture
MoMuLV expression in mouse embryo: SAVATIER AND OTHERS 655
Embryonic lethal
molecular analysis of *Mov 34*: GRIDLEY AND OTHERS 235
Embryonic stem cell
sex determination, a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Endoderm
chick marginal zone, hypoblast and primitive streak formation: STERN 667
Endoplasmic reticulum
in *Funaria*: McCAULEY AND HEPLER 753
Enteric nervous system
back-transplantation of developing avian bowel: ROTHMAN AND OTHERS 411
neurogenesis in insect embryo: COPENHAVER AND TAGHERT 17
Epiblast
chick marginal zone, hypoblast and primitive streak formation: STERN 667
Epidermal development
requirement for *Notch* in *Drosophila*: HOPPE AND GREENSPAN 875
Epithelial immunoreactivity
NGF receptor in rat dental tissue: BYERS AND OTHERS 461
Epithelial morphogenesis
during *Fundulus* epiboly: WELIKY AND OSTER 373
Epithelium
J1/tenascin in mouse small intestine: PROBSTMEIER AND OTHERS 313
Evolution
expression of a homeodomain protein in zebrafish: MOLVEN AND OTHERS 279
Exchange
of nerve terminals; fast and slow motor units in mouse: FLADBY AND JANSEN 723
Excretory system
mouse
Pax2: DRESSLER AND OTHERS 787
Explant culture
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395
Expression
ectopic
of *caudal* in *Drosophila*: MLODZIK AND OTHERS 271
gene
effect of stretch on muscle gene expression: LOUGHNA AND OTHERS 217
Zfy in XY female mice: GUBBAY AND OTHERS 647
hnRNP protein
temperature-dependent sex determination in turtles: HARRY AND OTHERS 305
mouse *Hox-3.4*: GAUNT AND OTHERS 329
Pax2
in mouse neurogenesis: NORNES AND OTHERS 797
pollen-specific
in transgenic plants: TWELL AND OTHERS 705
TGF beta isoforms in palatogenesis: FITZPATRICK AND OTHERS 585
tropomyosin/cholinesterase expression in ascidian zygotes: CROWTHER AND OTHERS 953
variegated
in zebrafish: STUART AND OTHERS 577
Extracellular matrix
in axolotl neural crest pathways: PERRIS AND OTHERS 533
localization of bFGF: KALCHEIM AND NEUFELD 203
tenascin expression during *Pleurodeles* regeneration: ARSANTO AND OTHERS 177
TGF-beta 1 and ECM during lung morphogenesis: HEINE AND OTHERS 29
Extracellular pH
ammonia promotes cAMP accumulation in *Dictyostelium*: RILEY AND BARCLAY 715
Eye
human
effect bFGF on DNA synthesis: HYLDAHL AND OTHERS 605
mouse
dorsal eye antigen: RABACCHI AND OTHERS 521

Facial primordium
chick
differential growth *in vitro*: RICHMAN AND CROSBY 341
faint little ball
DER/flb protein localization in *Drosophila*: ZAK AND OTHERS 865
Feather
pigment pattern formation in quail embryo: RICHARDSON AND OTHERS 81
Fertilization
sperm guidance system in teleost: AMANZE AND IYENGAR 495
zona receptors on guinea-pig spermatozoa: JONES AND WILLIAMS 41
Fiber
muscle
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
Fibroblast
growth factor
during chick mesoderm induction: MITRANI AND OTHERS 387
effect on DNA synthesis in human cornea: HYLDAHL AND OTHERS 605
localization of bFGF in avian embryos: KALCHEIM AND NEUFELD 203
Fibronectin
TGF-beta 1 and ECM during lung morphogenesis: HEINE AND OTHERS 29
Fin bud
expression of a homeodomain protein in zebrafish: MOLVEN AND OTHERS 279
Floor plate
axon patterning in rat: BOVOLENTA AND DODD 435
Frontonasal mass
differential growth of facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Funaria
endoplasmic reticulum: McCAULEY AND HEPLER 753
Functional disomy X
two active X chromosomes in mouse development: TAKAGI AND ABE 189
Fundulus
epithelial morphogenesis during epiboly: WELIKY AND OSTER 373
fushi tarazu
ectopic expression in *Drosophila*: MLODZIK AND OTHERS 271
Fusion
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139

Galactocerebroside
prenatal Schwann cell development: MIRSKY AND OTHERS 105
Gastrulation
chick marginal zone, hypoblast and primitive streak formation: STERN 667
Gel electrophoresis
extracellular matrix in axolotl neural crest pathways: PERRIS AND OTHERS 533
Gene
bicoid
determination in *Drosophila* embryo: DRIEVER AND OTHERS 811
expression
C/EBP localization in mouse: KUO AND OTHERS 473
effect of stretch on muscle gene expression: LOUGHNA AND OTHERS 217
LDH in mouse spermatogenesis: THOMAS AND OTHERS 483
of *caudal* in *Drosophila*: MLODZIK AND OTHERS 271
Zfy in XY female mice: GUBBAY AND OTHERS 647
homeobox
expression of a homeodomain protein: MOLVEN AND OTHERS 279
Hox-2.3/lacZ expression in transgenic mice: KRESS AND OTHERS 775
mouse *Hox-3.4*: GAUNT AND OTHERS 329
Oct2b
differential splicing: HATZOPOULOS AND OTHERS 349
Germ
cell
meiosis in mouse chimaeras: DOLCI AND DE FELICI 37
layer
chick marginal zone, hypoblast and primitive streak formation: STERN 667
GFAP
Schwann cell protein down-regulation: JESSEN AND OTHERS 91
Glia
rat
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Glycoprotein
BEN expression in avian embryonic nervous system: POURQUIE AND OTHERS 743
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
Glycosaminoglycan
TGF-beta 1 and ECM during lung morphogenesis: HEINE AND OTHERS 29
Gonad
mouse
meiosis in chimaeras: DOLCI AND DE FELICI 37
sex differentiation in marsupials: BAKER AND OTHERS 699
Growth
cone
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
factor
effect on DNA synthesis in human cornea: HYLDAHL AND OTHERS 605
fibroblast, during chick mesoderm induction: MITRANI AND OTHERS 387
receptor expression in rat embryos: SENIOR AND OTHERS 67
TGF beta isoforms in palatogenesis: FITZPATRICK AND OTHERS 585
transforming in chick embryo: SMITH AND McLACHLAN 905
regulation
satellite cell–myofiber interaction: BISCHOFF 943
Guidance
axon
patterning at rat floor plate: BOVOLENTA AND DODD 435
sperm
system in teleost: AMANZE AND IYENGAR 495
Guinea pig
spermatozoa
zona receptors: JONES AND WILLIAMS 41

Handedness
development of left/right asymmetry: BROWN AND WOLPERT 1
Head
activator
tentacle morphogenesis in hydra: HOBMAYER AND OTHERS 887
Heart
BMP-2A expression during mouse development: LYONS AND OTHERS 833
Heat-shock protein
temperature-dependent sex determination in turtles: HARRY AND OTHERS 305
Heavy chain
myosin
effect of stretch on muscle gene expression: LOUGHNA AND OTHERS 217
Heparin
FGF during chick mesoderm induction: MITRANI AND OTHERS 387
Hepatocyte
C/EBP localization in mouse: KUO AND OTHERS 473
Heterotaxia
development of left/right asymmetry: BROWN AND WOLPERT 1
HNK-1
BEN expression in avian embryonic nervous system: POURQUIE AND OTHERS 743
hnRNP protein
temperature-dependent sex determination in turtles: HARRY AND OTHERS 305
Homeobox
gene
Hox-2.3/*lacZ* expression in transgenic mice: KRESS AND OTHERS 775
mouse *Hox-3.4*: GAUNT AND OTHERS 329
Homeodomain
protein
expression in zebrafish: MOLVEN AND OTHERS 279
in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
Homeotic gene
expression patterns of the two *Drosophila Ant* promoters: BERMINGHAM AND OTHERS 553
Hox-2.3
Hox-2.3/*lacZ* expression in transgenic mice: KRESS AND OTHERS 775
HT-29 cell line
J1/tenascin in mouse small intestine: PROBSTMEIER AND OTHERS 313
Human
cornea
effect of bFGF on DNA synthesis: HYLDAHL AND OTHERS 605
Hybridization
in situ
BMP-2A expression during mouse development: LYONS AND OTHERS 833
developmental expression of c-*kit*: ORR-URTREGER AND OTHERS 911
developmental expression of the *trk*B proto-oncogene: KLEIN AND OTHERS 845
Hox-2.3/*lacZ* expression in transgenic mice: KRESS AND OTHERS 775
mouse *Hox-3.4*: GAUNT AND OTHERS 329
TGF beta isoforms in palatogenesis: FITZPATRICK AND OTHERS 585
Hydra
nerve cell–battery cell complex: HOBMAYER AND OTHERS 897
tentacle morphogenesis: HOBMAYER AND OTHERS 887
Hydrogen peroxide
and the 2-cell block in mouse oocytes: NASR-ESFAHANI AND OTHERS 501
Hypoblast
chick marginal zone and primitive streak formation: STERN 667

IGF
peptides in chick embryo: RALPHS AND OTHERS 51
IGF-II
receptor expression in rat embryos: SENIOR AND OTHERS 67
Immune suppression
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395
Immunocytochemistry
IGF peptides in chick embryo: RALPHS AND OTHERS 51
Immunohistochemistry
extracellular matrix in axolotl neural crest pathways: PERRIS AND OTHERS 533
Immunoreactivity
NGF receptor in rat dental tissue: BYERS AND OTHERS 461
Inactivation
centre
two active X chromosomes in mouse development: TAKAGI AND ABE 189
X-chromosome
in mouse development: TAKAGI AND ABE 189
Induction
neural
homeodomain protein in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
of neural genes in *Xenopus*: SHARPE AND GURDON 765
organizer amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
Inhibition
lateral
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
Injury
NGF receptor in rat dental tissue: BYERS AND OTHERS 461
Innervation
selective
fast and slow motor units in mouse: FLADBY AND JANSEN 723
Insertional mutagenesis
a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Insertional mutation
Mov 34
molecular analysis: GRIDLEY AND OTHERS 235
In situ
hybridization
BMP-2A expression during mouse development: LYONS AND OTHERS 833
developmental expression of c-*kit*: ORR-URTREGER AND OTHERS 911
developmental expression of the *trk*B proto-oncogene: KLEIN AND OTHERS 845
Hox-2.3/*lacZ* expression in transgenic mice: KRESS AND OTHERS 775
mouse *Hox-3.4*: GAUNT AND OTHERS 329

TGF beta isoforms in palatogenesis: FITZPATRICK AND OTHERS 585
Insulin-like growth factor
peptides in chick embryo: RALPHS AND OTHERS 51
receptor expression in rat embryos: SENIOR AND OTHERS 67
Interaction
cell
and differentiation of sea urchin mesomeres: KHANER AND WILT 625
cellular
Schwann cell–neuron: JESSEN AND OTHERS 91
Intermediate target
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
Intestine
small
expression of J1/tenascin in mouse: PROBSTMEIER AND OTHERS 313
Intracellular cAMP
ammonia promotes cAMP accumulation in *Dictyostelium*: RILEY AND BARCLAY 715
In vitro
acellularity of embryonic starfish mesenchyme cells: KANEKO AND OTHERS 129
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
In vivo
regulation of MPF in *Xenopus* oocytes: JOHNSON AND SMITH 149
Isomerism
development of left/right asymmetry: BROWN AND WOLPERT 1

J1/tenascin
expression in mouse small intestine: PROBSTMEIER AND OTHERS 313
Junction
neuromuscular
fast and slow motor units in mouse: FLADBY AND JANSEN 723

Keratin
transcriptional activator in *Xenopus* embryo: SNAPE AND OTHERS 157
Kidney
Pax2 in developing mouse excretory system: DRESSLER AND OTHERS 787
KTF-1
transcriptional activator of *Xenopus* keratin: SNAPE AND OTHERS 157

Lactate dehydrogenase
gene expression: THOMAS AND OTHERS 483
LacZ
expressing vector
MoMuLV expression in mouse embryo: SAVATIER AND OTHERS 655
reporter gene
Hox-2.3/lacZ expression in transgenic mice: KRESS AND OTHERS 775
Lamina terminalis
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
Laminin
receptor
dorsal eye antigen in mouse: RABACCHI AND OTHERS 521
Lateral inhibition
in *Drosophila*: SIMPSON 509
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
Laterality
development of left/right asymmetry: BROWN AND WOLPERT 1
LDH
gene expression
in mouse spermatogenesis: THOMAS AND OTHERS 483
Lethal yellow mutation
cellular action in mouse chimeras: BARSH AND OTHERS 683
Leukemia virus
MoMuLV expression in mouse embryo: SAVATIER AND OTHERS 655
Limb
chick
cartilage rudiment specification: WOLPERT AND HORNBRUCH 961
mouse
BMP-2A expression during development: LYONS AND OTHERS 833
quail
pigment pattern formation in quail embryo: RICHARDSON AND OTHERS 81
Liver
C/EBP localization in mouse: KUO AND OTHERS 473
Loggerhead turtle
temperature-dependent sex determination: HARRY AND OTHERS 305
Long-term effect
parthenogenetic development of rat oocyte: OZIL 117
Long terminal repeat
MoMuLV expression in mouse embryo: SAVATIER AND OTHERS 655
Luciferase reporter gene
Hox-2.3/lacZ expression in transgenic mice: KRESS AND OTHERS 775
Lung
morphogenesis
TGF-beta 1 and ECM in mouse: HEINE AND OTHERS 29
Lycopersicon esculentum
pollen-specific gene expression: TWELL AND OTHERS 705

Mammal
embryo
CRBP and CRABP in nervous system: MADEN AND OTHERS 75
Mandible
chick
differential growth of facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Manduca sexta
of enteric nervous system in insect embryo: COPENHAVER AND TAGHERT 17
Mannose-6-phosphate
IGF-II receptor expression in rat embryos: SENIOR AND OTHERS 67
Marginal zone
chick
hypoblast and primitive streak formation: STERN 667
Marsupial
newborn
sex differentiation: BAKER AND OTHERS 699
Maternal effect mutant
vasa localization in *Drosophila*: HAY AND OTHERS 425

Maternal gene
determination by *bicoid* in *Drosophila* embryo: DRIEVER AND OTHERS 811
Matrix
extracellular
TGF-beta 1 and ECM during lung morphogenesis: HEINE AND OTHERS 29
Maturation
progesterone-induced, and protein kinase C in *Xenopus*: VARNOLD AND SMITH 597
Maxilla
chick
differential growth of facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Mechanics
epithelial morphogenesis during *Fundulus* epiboly: WELIKY AND OSTER 373
Meiosis
in mouse chimaeras: DOLCI AND DE FELICI 37
LDH gene expression in mouse spermatogenesis: THOMAS AND OTHERS 483
Melanin
pigment pattern formation in quail embryo: RICHARDSON AND OTHERS 81
Membrane
skeleton
domains in *Tetrahymena*: WILLIAMS AND OTHERS 935
Mesenchymal immunoreactivity
NGF receptor in rat dental tissue: BYERS AND OTHERS 461
Mesenchyme
starfish embryo
acellularity: KANEKO AND OTHERS 129
Mesoderm
-inducing factors
Xenopus xsna homologue of *Drosophila*: SARGENT AND BENNETT 967
induction
fibroblast growth factor effects: MITRANI AND OTHERS 387
mouse
two active X chromosomes: TAKAGI AND ABE 189
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
Mesomere
cell interaction and differentiation of sea urchin mesomeres: KHANER AND WILT 625
Microinjection
transgene expression in zebrafish: STUART AND OTHERS 577
Micromass culture
differential growth of chick facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Micropyle
sperm guidance system in teleost: AMANZE AND IYENGAR 495
Microsporogenesis
tomato pollen-specific gene expression: TWELL AND OTHERS 705
Microsurgery
nucleocytoplasmic ratio in early mouse development: EVSIKOV AND OTHERS 323
Microvilli
brush border formation in chick enterocytes: FATH AND OTHERS 449
Migration pathway
neural crest
back-transplantation of developing avian bowel: ROTHMAN AND OTHERS 411
Model
cartilage rudiment specification in chick limb: WOLPERT AND HORNBRUCH 961
Modeling
epithelial morphogenesis during *Fundulus* epiboly: WELIKY AND OSTER 373
Moloney Murine Leukemia Virus
MoMuLV expression in mouse embryo: SAVATIER AND OTHERS 655
MoMuLV
expression in mouse embryo: SAVATIER AND OTHERS 655
Monoclonal antibody
BEN expression in embryonic nervous system: POURQUIE AND OTHERS 743
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395
membrane skeleton domains in *Tetrahymena*: WILLIAMS AND OTHERS 935
Morphogen
bicoid
determination in *Drosophila* embryo: DRIEVER AND OTHERS 811
Mosaic
Drosphila
epidermal requirement for *Notch*: HOPPE AND GREENSPAN 875
Mosaicism
transgene expression in zebrafish: STUART AND OTHERS 577
Motor nerve
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
Mouse
chimera
a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
cellular action of the lethal yellow mutation: BARSH AND OTHERS 683
development
two active X chromosomes: TAKAGI AND ABE 189
dorsal eye antigen: RABACCHI AND OTHERS 521
embryo
BMP-2A expression: LYONS AND OTHERS 833
developmental expression of c-*kit*: ORR-URTREGER AND OTHERS 911
developmental expression of the *trk*B proto-oncogene: KLEIN AND OTHERS 845
Hox-3.4: GAUNT AND OTHERS 329
MoMuLV expression: SAVATIER AND OTHERS 655
nucleocytoplasmic ratio in early development: EVSIKOV AND OTHERS 323
Pax2 expression in neurogenesis: NORNES AND OTHERS 797
TGF-beta 1 and ECM during lung morphogenesis: HEINE AND OTHERS 29
TGF beta isoforms in palatogenesis: FITZPATRICK AND OTHERS 585
eye
dorsal eye antigen: RABACCHI AND OTHERS 521
fetus and adult
C/EBP localization: KUO AND OTHERS 473
gonad
meiosis in chimaeras: DOLCI AND DE FELICI 37

intestine
J1/tenascin expression: PROBSTMEIER AND OTHERS 313
muscle
fast and slow motor units: FLADBY AND JANSEN 723
mutant
Zfy genes in XY female mice: GUBBAY AND OTHERS 647
oocyte
hydrogen peroxide and the 2-cell block: NASR-ESFAHANI AND OTHERS 501
Pax2 in developing excretory system: DRESSLER AND OTHERS 787
spermatogenesis
LDH gene expression: THOMAS AND OTHERS 483
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
transgenic
Hox-2.3/lacZ expression: KRESS AND OTHERS 775
Mov 34
molecular analysis: GRIDLEY AND OTHERS 235
MPF
regulation in *Xenopus* oocytes: JOHNSON AND SMITH 149
Muscle
attachments
DER/flb protein localization in *Drosophila*: ZAK AND OTHERS 865
effect of stretch on gene expression: LOUGHNA AND OTHERS 217
fiber
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
satellite cell–myofiber interaction: BISCHOFF 943
tropomyosin/cholinesterase expression in ascidian zygotes: CROWTHER AND OTHERS 953
Mutant
maternal-effect
vasa localization in *Drosophila*: HAY AND OTHERS 425
zebrafish
expression of a homeodomain protein: MOLVEN AND OTHERS 279
Zfy genes in XY female mice: GUBBAY AND OTHERS 647
Mutation
A^y
cellular action of the lethal yellow mutation: BARSH AND OTHERS 683
Mov 34
molecular analysis: GRIDLEY AND OTHERS 235
Notch
antineurogenic effects in *Drosophila*: PALKA AND OTHERS 167
Myelination
Schwann cell protein down-regulation: JESSEN AND OTHERS 91
Myoblast
promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
Myosin
heavy chain
effect of stretch on muscle gene expression: LOUGHNA AND OTHERS 217
Myotube
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139

Nerve
cell
–battery cell complex in hydra: HOBMAYER AND OTHERS 897
cell differentiation
nerve cell–battery cell complex in hydra: HOBMAYER AND OTHERS 897
tentacle morphogenesis in hydra: HOBMAYER AND OTHERS 887
cranial
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
motor
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
peripheral
Schwann cell protein down-regulation: JESSEN AND OTHERS 91
sensory
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
terminal
exchange; fast and slow motor units in mouse: FLADBY AND JANSEN 723
transection
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395
Nerve growth factor
receptor in rat dental tissue: BYERS AND OTHERS 461
Nervous system
enteric
neurogenesis in insect embryo: COPENHAVER AND TAGHERT 17
mouse
developmental expression of the *trk*B proto-oncogene: KLEIN AND OTHERS 845
peripheral
lateral inhibition in *Drosophila*: SIMPSON 509
Neural crest
avian
back-transplantation of c veloping bowel: ROTHMAN AND OTHERS 411
avian embryo
localization of bFGF: KALCHEIM AND NEUFELD 203
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
differentiation into Schwann cells: SMITH-THOMAS AND OTHERS 925
extracellular matrix in axolotl: PERRIS AND OTHERS 533
Neural development
expression of a homeodomain protein in zebrafish: MOLVEN AND OTHERS 279
Neural fold
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Neural gene
induction in *Xenopus*: SHARPE AND GURDON 765
Neural groove
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Neural immunoreactivity
NGF receptor in rat dental tissue: BYERS AND OTHERS 461
Neural induction
homeodomain protein in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
induction of neural genes in *Xenopus*: SHARPE AND GURDON 765
Neural plate
mechanisms of neurulation: SCHOENWOLF AND SMITH 243

Neural tube
avian embryo
localization of bFGF: KALCHEIM AND NEUFELD 203
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Neurepithelium
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Neuroblast
postmitotic
homeodomain protein in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
Neuroepithelium
homeodomain protein in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
Neurogenesis
BEN expression in avian embryonic nervous system: POURQUIE AND OTHERS 743
Drosophila
cell communication: BECKER AND TECHNAU 821
epidermal requirement for *Notch*: HOPPE AND GREENSPAN 875
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
of enteric nervous system in insect embryo: COPENHAVER AND TAGHERT 17
Pax2 expression in mouse: NORNES AND OTHERS 797
Neurogenic effect
Drosophila Notch mutations: PALKA AND OTHERS 167
Neuromere
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
Neuromuscular junction
fast and slow motor units in mouse: FLADBY AND JANSEN 723
Neuron
commissural
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
neural crest differentiation into Schwann cells: SMITH-THOMAS ANT OTHERS 925
Neuronal differentiation
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
Neurulation
mechanisms: SCHOENWOLF AND SMITH 243
NGF
receptor
Schwann cell protein down-regulation: JESSEN AND OTHERS 91
receptor in dental tissue: BYERS AND OTHERS 461
Notch
epidermal requirement in *Drosophila*: HOPPE AND GREENSPAN 875
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
locus
antineurogenic effects in *Drosophila*: PALKA AND OTHERS 167
Notochord
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Nucleocytoplasmic ratio
in early mouse development: EVSIKOV AND OTHERS 323

Obesity
mouse
cellular action of the lethal yellow mutation: BARSH AND OTHERS 683
Oct2
gene
differential splicing: HATZOPOULOS AND OTHERS 349
Octamer
differential splicing of the Oct2 gene: HATZOPOULOS AND OTHERS 349
Oct2b protein
differential splicing of the Oct2 gene: HATZOPOULOS AND OTHERS 349
Olfactory system
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
Oligodendrocyte
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Oocyte
mouse
hydrogen peroxide and the 2-cell block: NASR-ESFAHANI AND OTHERS 501
rabbit
parthenogenetic development: OZIL 117
Xenopus
in vivo regulation of MPF: JOHNSON AND SMITH 149
progesterone-induced maturation: VARNOLD AND SMITH 597
Optic nerve
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Optic vesicle
Pax2 expression in mouse neurogenesis: NORNES AND OTHERS 797
Organizer
amount and axial pattern in *Xenopus*: STEWART AND GERHART 363
Otic vesicle
Pax2 expression in mouse neurogenesis: NORNES AND OTHERS 797
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
Oxygen
radical
hydrogen peroxide and the 2-cell block: NASR-ESFAHANI AND OTHERS 501

Paired box
Pax2 expression in mouse neurogenesis: NORNES AND OTHERS 797
Pax2 in developing mouse excretory system: DRESSLER AND OTHERS 787
Palatogenesis
TGF beta isoforms in mouse: FITZPATRICK AND OTHERS 585
Parasegment
expression patterns of the two *Drosophila Ant* promoters: BERMINGHAM AND OTHERS 553
Parthenogenesis
development of rat oocyte: OZIL 117
Pattern
aggregation
of *Dictyostelium discoideum*: FOERSTER AND OTHERS 11
formation
BMP-2A expression during mouse development: LYONS AND OTHERS 833

pigment in feathers of quail embryo: RICHARDSON AND OTHERS 81
spiral wave of *Dictyostelium discoideum*: FOERSTER AND OTHERS 11
Pax
Pax2 expression in mouse neurogenesis: NORNES AND OTHERS 797
Pax2 in developing mouse excretory system: DRESSLER AND OTHERS 787
Peanut agglutinin
binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
Peptide
IGF
in chick embryo: RALPHS AND OTHERS 51
Peripheral nerve
Schwann cell protein down-regulation: JESSEN AND OTHERS 91
Peripheral nervous system
adult
Drosophila Notch mutations – antineurogenic effects: PALKA AND OTHERS 167
Drosophila
lateral inhibition: SIMPSON 509
Photoreceptor
retinal development in embryonic zebrafish: LARISON AND BREMILLER 567
Pigmentation
pattern formation in quail embryo: RICHARDSON AND OTHERS 81
Placode
ENS neurogenesis in insect embryo: COPENHAVER AND TAGHERT 17
Pleurodeles waltl
regeneration
tenascin expression: ARSANTO AND OTHERS 177
Polar granule
vasa localization in *Drosophila* maternal-effect mutants: HAY AND OTHERS 425
Polarity
vasa localization in *Drosophila* maternal-effect mutants: HAY AND OTHERS 425
Polarizing region
pigment pattern formation in quail embryo: RICHARDSON AND OTHERS 81
Pollen-specific expression
in transgene plants: TWELL AND OTHERS 705
Polymerase chain reaction
Zfy genes in XY female mice: GUBBAY AND OTHERS 647
Polysaccharide
sulphated
zona receptors on guinea-pig spermatozoa: JONES AND WILLIAMS 41
Positional information
dorsal eye antigen in mouse: RABACCHI AND OTHERS 521
pigment pattern formation in quail embryo: RICHARDSON AND OTHERS 81
Postmitotic neuroblast
homeodomain protein in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
Primitive streak
formation
chick marginal zone and hypoblast: STERN 667
Primordium
facial
differential growth of chick facial mesenchyme *in vitro*: RICHMAN AND CROSBY 341
Proacrosin
zona receptors on guinea-pig spermatozoa: JONES AND WILLIAMS 41
Progenitor
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Proliferation
satellite cell–myofiber interaction: BISCHOFF 943
Promoter
Drosophila
expression patterns of the two *Ant* promoters: BERMINGHAM AND OTHERS 553
Protease
effects on axon growth: FAWCETT AND HOUSDEN 59
Protein
cytoskeletal
brush border formation in chick enterocytes: FATH AND OTHERS 449
distribution
membrane skeleton domains in *Tetrahymena*: WILLIAMS AND OTHERS 935
DNA binding
transcriptional activator of *Xenopus* keratin: SNAPE AND OTHERS 157
growth associated
in chick visual system: SCHLOSSHAUER AND OTHERS 395
heat shock
temperature-dependent sex determination in turtles: HARRY AND OTHERS 305
IGF-II receptor expression in rat embryos: SENIOR AND OTHERS 67
kinase C and progesterone-induced maturation: VARNOLD AND SMITH 597
Oct2b
differential splicing of the Oct2 gene: HATZOPOULOS AND OTHERS 349
zinc-finger
Xenopus xsna homologue of *Drosophila*: SARGENT AND BENNETT 967
Proto-oncogene
developmental expression of c-*kit*: ORR-URTREGER AND OTHERS 911
developmental expression of the *trk*B proto-oncogene: KLEIN AND OTHERS 845

Quail
–chick chimera
back-transplantation of developing avian bowel: ROTHMAN AND OTHERS 411
embryo
BEN expression in nervous system: POURQUIE AND OTHERS 743
pigment pattern formation: RICHARDSON AND OTHERS 81

Rabbit
oocyte
parthenogenetic development: OZIL 117
Rat
adult
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
embryo
axon patterning at floor plate: BOVOLENTA AND DODD 435
effects of protease inhibitors on axon growth: FAWCETT AND HOUSDEN 59

IGF-II receptor expression: SENIOR AND OTHERS 67
neural crest differentiation into Schwann cells: SMITH-THOMAS AND OTHERS 925
prenatal Schwann cell development: MIRSKY AND OTHERS 105
muscle
effect of stretch on gene expression: LOUGHNA AND OTHERS 217
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
satellite cell–myofiber interaction: BISCHOFF 943
nerves
Schwann cell protein down-regulation: JESSEN AND OTHERS 91
teeth
NGF receptor: BYERS AND OTHERS 461
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
Reactive oxygen species
hydrogen peroxide and the 2-cell block: NASR-ESFAHANI AND OTHERS 501
Receptor
IGF-II, in rat embryos: SENIOR AND OTHERS 67
NGF
in dental tissue: BYERS AND OTHERS 461
tyrosine kinase
developmental expression of c-*kit*: ORR-URTREGER AND OTHERS 911
Regeneration
axon
effects of protease inhibitors: FAWCETT AND HOUSDEN 59
satellite cell–myofiber interaction: BISCHOFF 943
tail
tenascin expression in *Pleurodeles*: ARSANTO AND OTHERS 177
Regulation
growth
satellite cell–myofiber interaction: BISCHOFF 943
in vivo
of MPF in *Xenopus* oocytes: JOHNSON AND SMITH 149
role of nucleocytoplasmic ratio in early mouse development: EVSIKOV AND OTHERS 323
Thy-1 expression in murine olfactory bulb: XUE AND OTHERS 851
transcription
Hox-2.3/lacZ expression in transgenic mice: KRESS AND OTHERS 775
Repetitive electrical stimulation
parthenogenetic development of rat oocyte: OZIL 117
Reporter gene
pollen-specific gene expression in transgenic plants: TWELL AND OTHERS 705
Retina
dorsal eye antigen in mouse: RABACCHI AND OTHERS 521
neural crest differentiation into Schwann cells: SMITH-THOMAS AND OTHERS 925
Retinal development
in embryonic zebrafish: LARISON AND BREMILLER 567
Retinoic acid
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
Retinol
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75
Retroviral vector
sex determination, a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Rhombomere
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
RNA
distribution patterns
BMP-2A expression during mouse development: LYONS AND OTHERS 833
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
messenger
brush border formation in chick enterocytes: FATH AND OTHERS 449
C/EBP localization in mouse: KUO AND OTHERS 473
IGF-II receptor expression in rat embryos: SENIOR AND OTHERS 67
Rootlet
brush border formation in chick enterocytes: FATH AND OTHERS 449
RSV-LTR
transgene expression in zebrafish: STUART AND OTHERS 577

Satellite
cell
myoblasts promote adult muscle fiber remodelling: HINTERBERGER AND BARALD 139
–myofiber interaction: BISCHOFF 943
Scanning microscopy
confocal laser
Funaria endoplasmic reticulum: McCAULEY AND HEPLER 753
Schwann cell
neural crest differentiation: SMITH-THOMAS AND OTHERS 925
prenatal development: MIRSKY AND OTHERS 105
protein down-regulation: JESSEN AND OTHERS 91
Sciatic nerve
prenatal Schwann cell development: MIRSKY AND OTHERS 105
scute
interactions between *scute*, *Notch* and *Delta*: CABRERA 733
Sea
urchin
cell interactions and differentiation of mesomeres: KHANER AND WILT 625
Searle's translocation
two active X chromosomes in mouse development: TAKAGI AND ABE 189
Segmentation
brain
PNA binding, cholinesterases and chick brain vesicles: LAYER AND ALBER 613
ectopic expression of *caudal* in *Drosophila*: MLODZIK AND OTHERS 271
Selective innervation
fast and slow motor units in mouse: FLADBY AND JANSEN 723
Sensory bristle
Drosophila
lateral inhibition: SIMPSON 509
Sensory nerve
CRBP and CRABP in mammalian embryo: MADEN AND OTHERS 75

Sex
determination
a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
temperature-dependent in turtles: HARRY AND OTHERS 305
Zfy genes in XY female mice: GUBBAY AND OTHERS 647
differentiation
in marsupials: BAKER AND OTHERS 699
Sex combs reduced
control of mesoderm development by homeotic genes: REUTER AND SCOTT 289
Skeleton
membrane
domains in *Tetrahymena*: WILLIAMS AND OTHERS 935
snail
Xenopus xsna homologue of *Drosophila*: SARGENT AND BENNETT 967
spadetail mutant
expression of a homeodomain protein in zebrafish: MOLVEN AND OTHERS 279
Spatial expression
patterns of the two *Drosophila Ant* promoters: BERMINGHAM AND OTHERS 553
Specification
of cartilage rudiment in chick limb buds: WOLPERT AND HORNBRUCH 961
Sperm
guidance
system in teleost: AMANZE AND IYENGAR 495
Spermatogenesis
mouse
LDH gene expression: THOMAS AND OTHERS 483
Spermatozoa
zona receptors on guinea-pig: JONES AND WILLIAMS 41
Spinal cord
axon patterning at rat floor plate: BOVOLENTA AND DODD 435
Spiral wave pattern
aggregation patterns of *Dictyostelium discoideum*: FOERSTER AND OTHERS 11
Spore
differentiation
ammonia promotes cAMP accumulation: RILEY AND BARCLAY 715
Starfish
embryo
acellularity of mesenchyme cells: KANEKO AND OTHERS 129
Stem
cell
sex determination, a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635
Stretch
effect on muscle gene expression: LOUGHNA AND OTHERS 217
Sulfatide
prenatal Schwann cell development: MIRSKY AND OTHERS 105
Suramin
FGF during chick mesoderm induction: MITRANI AND OTHERS 387
Synaptic target influence
growth associated protein in chick visual system: SCHLOSSHAUER AND OTHERS 395
Tail
Pleurodeles
tenascin expression during regeneration: ARSANTO AND OTHERS 177
Tdy
sex determination, a heritable mutation in mouse: LOVELL-BADGE AND ROBERTSON 635
Zfy genes in XY female mice: GUBBAY AND OTHERS 647
Teeth
BMP-2A expression during mouse development: LYONS AND OTHERS 833
Teleost
fertilization
sperm guidance system: AMANZE AND IYENGAR 495
Temperature
-dependent sex determination in turtles: HARRY AND OTHERS 305
Tenascin
in *Pleurodeles* tail regeneration: ARSANTO AND OTHERS 177
Tentacle
morphogenesis
in hydra: HOBMAYER AND OTHERS 887
Terminal web
brush border formation in chick enterocytes: FATH AND OTHERS 449
Testis
development in marsupials: BAKER AND OTHERS 699
Tetrahymena
membrane skeleton domains: WILLIAMS AND OTHERS 935
TGFb
BMP-2A expression during mouse development: LYONS AND OTHERS 833
in chick embryo: SMITH AND McLACHLAN 905
isoforms in palatogenesis: FITZPATRICK AND OTHERS 585
TGF-beta 1
and ECM during mouse lung morphogenesis: HEINE AND OTHERS 29
Three-dimensional network
acellularity of embryonic starfish mesenchyme cells: KANEKO AND OTHERS 129
Thy-1
expression in murine olfactory bulb: XUE AND OTHERS 851
Tissue
mass
cell interactions and differentiation of sea urchin mesomeres: KHANER AND WILT 625
Tomata
pollen-specific gene expression: TWELL AND OTHERS 705
Transcription
C/EBP localization in mouse: KUO AND OTHERS 473
regulation
Hox-2.3/lacZ expression in transgenic mice: KRESS AND OTHERS 775
zygotic
Xenopus xsna homologue of *Drosophila*: SARGENT AND BENNETT 967
Transcriptional activator
of *Xenopus* keratin: SNAPE AND OTHERS 157
Transforming growth factor
in chick embryo: SMITH AND McLACHLAN 905
Transforming growth factor (See TGF)
Transgene
expression
in zebrafish: STUART AND OTHERS 577

Transgenic mice
Hox-2.3/lacZ expression in transgenic mice: KRESS AND OTHERS 775
Transgenic plant
pollen-specific gene expression: TWELL AND OTHERS 705
Transition
coexistence of O-2A^{perinatal} and O-2A^{adult} progenitors: WOLSWIJK AND OTHERS 691
Translational control
determination by *bicoid* in *Drosophila* embryo: DRIEVER AND OTHERS 811
Tube
neural
mechanisms of neurulation: SCHOENWOLF AND SMITH 243
Turtle
temperature-dependent sex determination: HARRY AND OTHERS 305
Two-cell
block
and hydrogen peroxide in mouse oocytes: NASR-ESFAHANI AND OTHERS 501
Tyrosine kinase
developmental expression of the *trk*B proto-oncogene: KLEIN AND OTHERS 845
Tyrosine kinase receptor
DER/flb protein localization in *Drosophila*: ZAK AND OTHERS 865

Ultrastructure
extracellular matrix in axloltl neural crest pathways: PERRIS AND OTHERS 533
Urodele
in *Pleurodeles* tail regeneration: ARSANTO AND OTHERS 177
tail regeneration
tenascin expression: ARSANTO AND OTHERS 177

Variegated expression
in zebrafish: STUART AND OTHERS 577
vasa
localization in *Drosophila* maternal-effect mutants: HAY AND OTHERS 425
Villus
brush border formation in chick enterocytes: FATH AND OTHERS 449
Visceral mesoderm
Drosophila
control of mesoderm development by homeotic genes: REUTER AND SCOTT 289
Visual system
chick
growth associated protein: SCHLOSSHAUER AND OTHERS 395

***W* allele**
developmental expression of murine c-*kit*: ORR-URTREGER AND OTHERS 911

Whisker
follicles
BMP-2A expression during mouse development: LYONS AND OTHERS 833
Wound
healing
tenascin expression during regeneration: ARSANTO AND OTHERS 177

X-chromosome
inactivation
in mouse development: TAKAGI AND ABE 189
Xenopus
embryo
transcriptional activator of keratin: SNAPE AND OTHERS 157
induction of neural genes: SHARPE AND GURDON 765
oocyte
progesterone-induced maturation: VARNOLD AND SMITH 597
oocytes
in vivo regulation of MPF: JOHNSON AND SMITH 149
XlHbox 6 protein in spinal cord neuronal precursors: WRIGHT AND OTHERS 225
xsna homologue of *Drosophila*: SARGENT AND BENNETT 967
Xenopus laevis
embryo
organizer amount and axial pattern: STEWART AND GERHART 363
X:Y pairing
a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635

Y chromosome
a heritable mutation in murine *Tdy*: LOVELL-BADGE AND ROBERTSON 635

Zebrafish
expression of a homeodomain protein: MOLVEN AND OTHERS 279
transgene expression: STUART AND OTHERS 577
Zfy
genes in XY female mice: GUBBAY AND OTHERS 647
Zinc finger
gene
in XY female mice: GUBBAY AND OTHERS 647
proteins
Xenopus xsna homologue of *Drosophila*: SARGENT AND BENNETT 967
Zona receptor
on guinea-pig spermatozoa: JONES AND WILLIAMS 41
Zygote
ascidian
tropomyosin/cholinesterase expression: CROWTHER AND OTHERS 953
Zygotic transcription
Xenopus xsna homologue of *Drosophila*: SARGENT AND BENNETT 967